



1

SEQUENCE LISTING

<110> CHOO, YEN
ISALAN, MARK

<120> NUCLEIC ACID BINDING PROTEINS

<130> 71278/273884

<140> 09/646,353

<141> 2000-09-17

<150> GB 9805576.7

<151> 1998-03-17

<150> GB 9806895.0

<151> 1998-03-31

<150> GB 9807246.5

<151> 1998-04-03

<160> 80

<170> PatentIn Ver. 2.1

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Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly
20 25

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<400> 2

Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
20 25

<210> 3

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 3

Thr Gly Glu Lys Pro
1 5

<210> 4

<211> 9

<212> DNA

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oligonucleotide

<220>

<221> modified_base

<222> (5)

<223> 5-Methyl Cytosine, Thymine or Cytosine

<400> 4

gcggnggcg

9

<210> 5

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc Finger
peptide

<400> 5

Arg Glu Asp Val Leu Ile Arg His Gly Lys
1 5 10

<210> 6

<211> 10

<212> PRT

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<220>

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<400> 6

Arg Ala Asp Ala Leu Met Val His Lys Arg
1 5 10

<210> 7

<211> 10

<212> PRT

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B/

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 Arg Gly Pro Asp Leu Ala Arg His Gly Arg
 1 5 10

<210> 8
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<400> 8
 Arg Ala Asp Ala Leu Met Val His Lys Arg
 1 5 10

<210> 9
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 Arg Gly Pro Asp Leu Ala Arg His Gly Arg
 1 5 10

<210> 10
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<400> 10
 Arg Glu Asp Val Leu Ile Arg His Gly Lys
 1 5 10

<210> 11
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<220>
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 oligonucleotide

B1

<400> 11
ctcctgcagt tggacctgtg ccatggccgg ctgggccgca tagaatggaa caactaaagc 60

<210> 12
<211> 39
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oligonucleotide

<220>
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<222> (8)..(11)
<223> GGMC or GMGC, where M is 5-Methyl Cytosine

<400> 12
tatagtgnnn nggcgtgtca cagtcagtcc acacacgtc 39

<210> 13
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oligonucleotide

B/ <400> 13
ggcccggcg 9

<210> 14
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oligonucleotide

<400> 14
gcgccggcg 9

<210> 15
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oligonucleotide

<220>
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<400> 15
 tatagtgggn cggcgtgtca cagtcagtcc acacacgtc

39

<210> 16
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<400> 16
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39

<210> 17
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<220>
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<220>
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<400> 17
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39

<210> 18
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B1

<400> 18
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<212> DNA
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oligonucleotide

<400> 19
tatagtgggt cggcgtgtca cagtcagtcc acacacgtc 39

<210> 20
<211> 7
<212> PRT
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<220>
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peptide

<400> 20
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 21
<211> 7
<212> PRT
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<220>
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peptide

<400> 21
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 22
<211> 7
<212> PRT
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<220>
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peptide

<400> 22
Arg Ser Asp Glu Leu Thr Arg
1 5

B1

<210> 23
<211> 7
<212> PRT
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<220>
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peptide

<400> 23
Arg Ser Asp Glu Leu Thr Arg
1 5

<210> 24
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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peptide

<400> 24
Arg Ser Asp Glu Leu Thr Arg
1 5

B/
<210> 25
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 25
Arg Ser Asp Asp Leu Ser Gln
1 5

<210> 26
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc finger
peptide

<400> 26
Arg Ser Asp Asp Leu Thr Arg
1 5

<210> 27
 <211> 7
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<220>
 <223> Description of Artificial Sequence: Zinc finger
 peptide

<400> 27
 Arg Ser Asp Asp Leu Thr Gly
 1 5

<210> 28
 <211> 7
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<220>
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 peptide

<400> 28
 Arg Ser Asp His Leu Ser Ala
 1 5

<210> 29
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<220>
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 peptide

<400> 29
 Arg Ser Asp Asp Leu Ser Thr
 1 5

<210> 30
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<220>
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 peptide

<400> 30
 Arg Lys His His Arg Lys Glu
 1 5

<210> 31
 <211> 7

B/

<212> PRT
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<220>
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 peptide

<400> 31
 Tyr Asp Gly Ala Arg Lys Arg
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<210> 32
 <211> 7
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 peptide

<400> 32
 His Asn Arg Asp Arg Lys Arg
 1 5

<210> 33
 <211> 7
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<220>
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 peptide

<400> 33
 Thr Asn Ser Thr Arg Thr Lys
 1 5

<210> 34
 <211> 7
 <212> PRT
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<220>
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 peptide

<400> 34
 Arg Asn Asp His Arg Lys Thr
 1 5

<210> 35
 <211> 9
 <212> DNA
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B/

<220>
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<220>
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<400> 35
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9

<210> 36
 <211> 9
 <212> DNA
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<220>
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 oligonucleotide

<400> 36
 gggccggcg

9

<210> 37
 <211> 9
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
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 <222> (3)
 <223> 5-Methyl Cytosine

<400> 37
 ggngcggcg

9

<210> 38
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 38
 ggcgcggcg

9

B/

<210> 39
 <211> 6
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 39
 Met Ala Glu Glu Lys Pro
 1 5

<210> 40
 <211> 24
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<220>
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 finger peptide

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 <223> Any amino acid

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 <223> Any amino acid and this range may encompass 2-4
 residues

<220>
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 <222> (-6)..(-4)
 <223> Any amino acid and this range may encompass 2-3
 residues

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 <223> Any amino acid

<220>
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 <222> (5)..(6)
 <223> Any amino acid

<220>
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 <222> (8)..(10)
 <223> Any amino acid

<400> 40
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B1

Xaa Leu Xaa Xaa His Xaa Xaa Xaa His
 5 10

<210> 41
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 41
 Thr Gly Glu Lys
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<210> 42
 <211> 5
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<220>
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 peptide

<220>
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<400> 42
 Thr Gly Glu Lys Pro
 1 5

<210> 43
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 43
 gcggcggcg

9

<210> 44
 <211> 9
 <212> DNA
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<220>
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 oligonucleotide

B1

<400> 44
gcggtggcg

9

<210> 45
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 45
gcgtgggcg

9

<210> 46
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<220>
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<222> (4)
<223> 5-Methyl Cytosine

<400> 46
gggncggcg

9

<210> 47
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 47
gggccggcg

9

<210> 48
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

B/

<220>
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<222> (3)
<223> 5-Methyl Cytosine

<400> 48
ggngcggcg

9

<210> 49
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 49
ggcgcggcg

9

<210> 50
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
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<222> (3)
<223> 5-Methyl Cytosine

<400> 50
ggnccggcg

9

<210> 51
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 51
gggtcggcg

9

<210> 52
<211> 9
<212> DNA
<213> Artificial Sequence

B1

<220>
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oligonucleotide

<400> 52
ggtgcggcg

9

<210> 53
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
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<222> (4)
<223> 5-Methyl Cytosine

<400> 53
gggncggcg

9

<210> 54
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
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oligonucleotide

<400> 54
gggtcggcg

9

<210> 55
<211> 9
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
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<222> (5)
<223> 5-Methyl Cytosine

<400> 55
gcggngggcg

9

B/

<210> 56
 <211> 9
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 56
 gcggccgcg

9

<210> 57
 <211> 9
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
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 <223> 5-Methyl Cytosine

<400> 57
 gcggncgcg

9

<210> 58
 <211> 9
 <212> DNA
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<220>
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 oligonucleotide

<220>
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 <222> (5)
 <223> 5-Methyl Cytosine

<400> 58
 gcggncgcg

9

<210> 59
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Zinc Finger
 peptide

B/

<400> 59

Met Ala Glu Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg
 1 5 10 15

Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr
 20 25 30

<210> 60

<211> 28

<212> PRT

<213> Artificial Sequence

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<222> (24)

<223> Any amino acid

<220>

<221> MOD_RES

<222> (25)

<223> Arg or Lys

<400> 60

Gly Gln Lys Pro Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Xaa
 1 5 10 15

Xaa Xaa Xaa Leu Xaa Xaa His Xaa Xaa Thr His Thr
 20 25

<210> 61

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc Finger peptide

<400> 61

Gly Glu Lys Pro Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Arg
 1 5 10 15

B1

Ser Asp Glu Arg Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp
 20 25 30

<210> 62
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 62
 Arg Gly Asp Ala Leu Thr Ser His Glu Arg
 1 5 10

<210> 63
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 63
 Arg Val Asp Ala Leu Glu Ala His Arg Arg
 1 5 10

<210> 64
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 64
 Arg Glu Asp Ala Leu Ile Arg His Gly Lys
 1 5 10

<210> 65
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Zinc Finger
 peptide

<400> 65
 Glu Lys Arg His His Lys Arg
 1 5

B1

<210> 66
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 66
 Gln Ser Leu Asp
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<210> 67
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<220>
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 <222> (29)
 <223> 5-Methyl Cytosine

<400> 67
 gacgtgtgga ctgactgtga cacgccgnc cactata

37

<210> 68
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
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 peptide

<400> 68
 Arg Lys Arg Ala Gly Asp Tyr
 1 5

<210> 69
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Zinc Finger
 peptide

B1

<400> 69
Arg Thr Leu Asp
1

<210> 70
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>
<221> modified_base
<222> (29)
<223> 5-Methyl Cytosine

<400> 70
gacgtgtgga ctgactgtga cacgccgrnc cactata

37

<210> 71
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Zinc Finger
peptide

<400> 71
Arg Lys Arg Asp Arg Asn His
1 5

<210> 72
<211> 4
<212> PRT
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<220>
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peptide

<400> 72
Gly Thr Leu Asp
1

<210> 73
<211> 37
<212> DNA
<213> Artificial Sequence

B1

<220>
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 oligonucleotide

<220>
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<400> 73
 gacgtgtgga ctgactgtga cacgccgrnc cactata

37

<210> 74
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<220>
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 peptide

<400> 74
 Lys Thr Arg Thr Ser Asn Thr
 1 5

<210> 75
 <211> 4
 <212> PRT
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<220>
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 peptide

<400> 75
 Ala Ser Leu His
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<210> 76
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
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 oligonucleotide

<220>
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 <222> (28)
 <223> 5-Methyl Cytosine

<400> 76
 gacgtgtgga ctgactgtga cacgccgnrc cactata

37

<210> 77
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Zinc Finger
 peptide

<400> 77
 Thr Lys Arg His Asp Asn Arg
 1 5

<210> 78
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Zinc Finger
 peptide

<400> 78
 Thr Ser Leu Asp
 1

<210> 79
 <211> 37
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthteic
 oligonucleotide

<220>
 <221> modified_base
 <222> (29)
 <223> 5-Methyl Cytosine

<400> 79
 gacgtgtgga ctgactgtga cacgccganc cactata

37

<210> 80
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 80
 tatagtggcg cggcgtgtca cagtcagggtg ggccggcgtg tcacagtcag tccacacgtc 60
